

Greeley County

Estimated Economic Impact of Agriculture, Food, and Food Processing Sectors 6/26/2017

Using the most recent IMPLAN data available (2015) adjusted for 2017, 8 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Greeley County economy.¹

These 8 sectors have a total direct output of approximately **\$119.2 million** and support **357.9 jobs** in Greeley County. Running the model for all 8 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Greeley County Economy								
Impact Type ²	Employment	% Employment	Total Value Added ³	Total Value Added % of Gross Regional	Output ⁵	Output % of Gross Regional Product		
				Product ⁴		Froduct		
Direct Effect	357.9	25.35%	\$27,882,750	40.23%	\$119,225,266	172.01%		
Indirect Effect	86.0	6.09%	\$4,651,028	6.71%	\$9,648,955	13.92%		
Induced Effect	59.6	4.22%	\$2,800,691	4.04%	\$5,898,806	8.51%		
Total Effect	503.5	35.66%	\$35,334,468	50.98%	\$134,773,027	194.44%		

As shown in the above table, agriculture, food, and food processing sectors support **503.5 jobs**, or **35.66%** of the entire workforce in the county. These sectors provide a total economic contribution of approximately **\$134.8** million, roughly **194.44%** of the economy.

Another metric used to calculate the importance of sectors in an economy is their value added as a percentage of GRP. Total value added by the 8 agriculture, food, and food processing sectors is approximately \$35.3 million, or 50.98% of the GRP. This indicates that personal income, business income, and taxes generated by these sectors account for 50.98% of the total economy.

The following tables document the overall summary numbers of the model, top industries affected by employment and output, and a listing of all industries that were analyzed.

¹ Article on building a contribution analysis in IMPLAN that avoids double counting: http://www.implan.com/index.php?option=com_content&view=article&id=660%3A660&catid=253%3AKB33&Itemid=70

² Direct, indirect, and induced effects sum together to estimate the total economic contribution in the state. **Direct effects** capture the contribution from agricultural and food products. **Indirect effects** capture the economic benefit from farms and agricultural businesses purchasing inputs from supporting industries within the state. **Induced effects** capture the benefits created when employees of farms, agricultural businesses, and the supporting industries spend their wages on goods and services within the state.

³ Value added = labor income + indirect business taxes + other property type income.

⁴ GRP = final demand of households + governments expenditures + capital + exports - imports - institutional sales.

 $^{5 \}text{ Output} = \text{intermediate inputs} + \text{value added}.$

In the top ten agriculture, food, and food processing sectors by employment, the beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector is the top employer with **205.7 employees**. This table also shows the amount of jobs that are created by the agriculture industry in Greeley County.

Top Ten Agriculture, Food, and Food Processing Sectors by Employment				
Sector	Total Employment	Total Output		
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	205.7	\$50,774,027		
Grain farming	78.1	\$51,017,392		
Animal production, except cattle and poultry and eggs	29	\$5,443,709		
Dairy cattle and milk production	26.8	\$7,715,358		
Real estate	25.8	\$2,666,177		
Support activities for agriculture and forestry	21.2	\$1,681,191		
All other crop farming	14.5	\$1,987,804		
Wholesale trade	9.7	\$1,965,318		
Securities and commodity contracts intermediation and brokerage	9.1	\$702,259		
Child day care services	8.9	\$125,671		

The grain farming sector directly contributes approximately **\$51.0 million** to the Greeley County economy. The table below also shows the amount of revenue that is generated in other industries by having a strong agriculture industry.

Top Ten Agriculture, Food, and Food Processing Sectors by Output				
Sector	Total Employment	Total Output		
Grain farming	78.1	\$51,017,392		
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	205.7	\$50,774,027		
Dairy cattle and milk production	26.8	\$7,715,358		
Animal production, except cattle and poultry and eggs	29.0	\$5,443,709		
Real estate	25.8	\$2,666,177		
All other crop farming	14.5	\$1,987,804		
Wholesale trade	9.7	\$1,965,318		
Owner-occupied dwellings	0.0	\$1,875,296		
Poultry and egg production	2.5	\$1,770,223		
Support activities for agriculture and forestry	21.2	\$1,681,191		

Below is a summary of all agriculture data with employment levels and output level. These values can tell how many jobs are represented by each agriculture, food, and food processing sector and the output they contributed to the Greeley County economy.

All Agriculture, Food, and Food Processing Sectors				
Sector	Total Employment	Total Output		
Oilseed farming	0.2	\$391,190.86		
Grain farming	78.1	\$51,017,391.20		
All other crop farming	14.5	\$1,987,803.82		
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	205.7	\$50,774,024.96		
Dairy cattle and milk production	26.8	\$7,715,357.78		
Poultry and egg production	2.5	\$1,770,222.90		
Animal production, except cattle and poultry and eggs	29.0	\$5,443,708.42		
Bread and bakery product, except frozen, manufacturing	1.2	\$125,561.95		

All 105 counties in Kansas have an IMPLAN model and an agriculture, food, and food processing contribution summary. These values do not factor in the retail environment of food sales. Food retail is important, but in order to provide the most accurate picture of what production agricultural and processing contributes to Greeley County, the retail sector was omitted.